



WELCOME TO

MAUNA LANI RESORT

MAUNA LANI BAY HOTEL & BUNGALOWS
FRANCIS H. I'I BROWN GOLF COURSES
MAUNA LANI SPA



MAUNA LANI RESORT

Environmental Recognition Program



- Area = 3200 Acres
- 2 Hotels (Total of 892 hotel rooms)
- 2 18-hole golf courses
- Free-standing Spa facility
- 5 luxury home developments
- 266 completed condominium units
- Retail/Commercial Complex (2002)
- PUC-regulated wastewater treatment facility

MAUNA LANI RESORT

Summary of Environmental Practices

Harnessing the Sun...

- **Mauna Lani Bay
Hotel & Bungalows**
100 kW PowerGuard™
solar electric roof system
- **Francis H. I'i Brown
Golf Maintenance
Facility**
130 kW PowerGuard™
solar electric roof system
- **Mauna Lani Resort
Brackish Water
Delivery System**
250 kW PowerTracker™
solar tracking system
- **Francis H. I'i Brown
Golf Course**
**Suncaddy™ Solar
Powered Golf Fleet**

Mauna Lani Bay Hotel & Bungalows

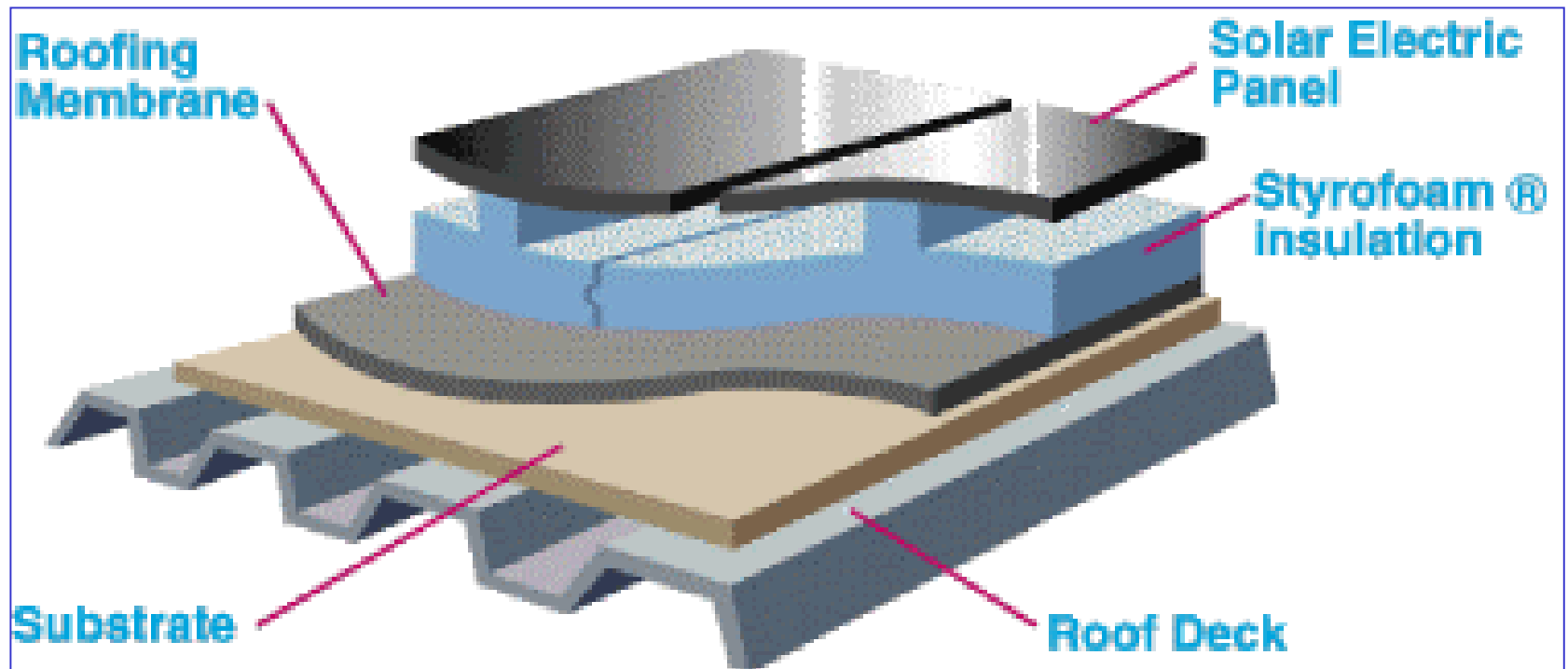


PowerGuard™ 100 kW Solar Roof System

Francis H. I'I Brown Golf Maintenance Facility



PowerGuard™ 130 kW Solar Roof System



PowerGuard™ System

PowerGuard™ System Features...

- **Utility Bill Savings** - *Feeds clean AC power into the building, displacing high daytime utility rates.*
- **Modular Design** - *Allows easy expansion and provides up to **10 net watts/sq. ft.**, meeting the peak load of most large buildings.*
- **Lightweight** - *Weights only 5 lbs./sq.ft*
- **No Roof Penetrations**

PowerGuard™ System Features... *(Continued)*

- **Longer Roof Life** - *Protects the roof membrane from harsh UV rays and thermal degradation for 30 years.*
- **Thermal Energy Savings** - *Reduces air conditioning and heating costs with R-19 insulation and roof shading.*
- **No Condensation** - *Prevents interior condensation by keeping the dew point above the roofing membrane.*

Mauna Lani Resort

Solar Powered Brackish Water Delivery System



PowerTracker™ 250 kW Solar Roof System

PowerTracker™ System Features...

- **Solar Tracking Technology** - *Tracks the sun from east to west on a tilted axis, generating the maximum energy possible.*
- **More Energy** - *Provides as much as 30% more power than fixed PV structures.*
- **Uniform Output** - *Produces consistent power from early morning to late afternoon, an advantage for uniform load applications.*



Francis H. I'i Brown Golf Course

SunCaddy™ Solar Cart Fleet

- *Extended Battery Life*
- *Reduced Recharging Expenses*



MAUNA LANI RESORT

Summary of Environmental Practices

*Other
Initiatives...*

MAUNA LANI RESORT

Summary of Environmental Practices

On-Site Green Waste Composting Facility

- **Age of Facility** – 11 Years
- **Size** – 5 Acres
- **Service Area** – Processes all green waste generated within the Resort
- **Usage** – Accepts approximately 5 tons of green waste per day
- **Other** – Facility derives moisture from effluent generated by on-site wastewater treatment facility.
- **End Product** – Breakdown to high-quality compost is 4~5 months. Compost is used on property and sold off-site

MAUNA LANI RESORT

Summary of Environmental Practices

Resort-Wide Potable Water Conservation Program

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Brackish Water Irrigation Management Program

- *Conservation of brackish & potable water resources*
- *Specification of drought-tolerant plant materials*